



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/097,791B
Source: 1600 RUSH
Date Processed by STIC: 10/10/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY.**

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO).

Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:
<http://www.uspto.gov/web/offices/pac/checker>

1600

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/097,791B

DATE: 10/10/2001

TIME: 09:29:30

Input Set : A:\Sequence 1-25.WorkFile.txt
Output Set: N:\CRF3\10102001\I097791B.rawDoes Not Comply
Corrected Diskette Needed

W--> 1 Application Project
 W--> 2 -----
 W--> 3 <120> TITLE OF INVENTION: Title : Polymerase Signaling Assay
 W--> 0 <110> APPLICANT:
 W--> 4 <130> FILE REFERENCE: AppFileReference : 13065
 W--> 5 <140> CURRENT APPLICATION NUMBER: CurrentAppNumber : 09/097,791B
 C--> 6 <141> CURRENT FILING DATE: 1998-06-16
 W--> 8 Sequence
 W--> 9 -----

ERRORED SEQUENCES

10 <213> ORGANISM: OrganismName : Homo sapiens
 W--> 0 <160> NUMBER OF SEQ ID NOS:
 W--> 11 <210> SEQ ID NO:
 W--> 11 <211> LENGTH:
 W--> 11 <212> TYPE:
 W--> 11 <400> SEQUENCE: PreSequenceString :
 12 gtctctccca ggacaggcac a
 E--> 13 <212> TYPE: Type : DNA
 W--> 14 <211> LENGTH: Length : 21
 W--> 15 SequenceName : Sequence 1
 W--> 16 SequenceDescription :
 W--> 18 Custom Codon
 W--> 19 -----
 W--> 20 Sequence Name : Sequence 1
 W--> 22 Sequence
 W--> 23 -----
 24 <213> ORGANISM: OrganismName : Homo sapiens
 W--> 25 <210> SEQ ID NO:
 W--> 25 <400> SEQUENCE: PreSequenceString :
 26 gtctctcgca ggacaggcac a
 E--> 27 <212> TYPE: Type : DNA
 W--> 28 <211> LENGTH: Length : 21
 W--> 29 SequenceName : Sequence 2
 W--> 30 SequenceDescription :
 W--> 32 Custom Codon
 W--> 33 -----
 W--> 34 Sequence Name : Sequence 2
 W--> 36 Sequence
 W--> 37 -----
 C--> 38 <213> ORGANISM: OrganismName : Artificial/Unknown
 W--> 39 <210> SEQ ID NO:
 W--> 39 <220> FEATURE:
 W--> 39 <223> OTHER INFORMATION:
 W--> 39 <400> SEQUENCE: PreSequenceString :

sample of submitted file

invalid format for
Sequence Listing. Please
consult

21

sample
 Sequence
 Listing
 (attached)

21

<110> Smith, John; Smithgene Inc.

<120> Example of a Sequence Listing

<130> 01-00001

<140> PCT/EP98/00001
<141> 1998-12-31

<150> US 08/999,999
<151> 1997-10-15

<160> 4

<170> PatentIn version 2.0

<210> 1
<211> 389
<212> DNA
<213> Paramecium sp.

<220>
<221> CDS
<222> (279)...(389)

<300>
<301> Doc, Richard
<302> Isolation and Characterization of a Gene Encoding a
Protease from Paramecium sp.
<303> Journal of Genes
<304> 1
<305> 4
<306> 1-7
<307> 1988-06-31
<308> 123456
<309> 1988-06-31

<400> 1
agctgtgtgc attcctgtgt cctcttcctc ctgggtttct caccctgtca atcagatctc 60
aggagagatg tcttgaccct cctctgcctt tgcagcttca caggcaggca ggcaggcagc 120
tcatgtggca attgtggca gtgccacagg ctttcagcc aggcttaggg tgggttccgc 180
cgccggcgccg cggccccctc cgcgttcctc tgcgttcctc ctctgtctc cctctgtctc 240

Appendix 3, page 2

ggacctgatt aggtgagcag gaggaggggg cagtttagc atg gtt tca atg ttc agc 296
 Met Val Ser Met Phe Ser
 1 10 15 20 25 30

tgg tct ttc aaa tgg cct gga tgt ttg ttt tgg ttt gtt tgt ttg ttc 344
 Leu Ser Phe Lys Trp Pro Gly Cys Leu Phe Val Cys Leu Phe Cln
 10 15 20 25 30 35

tgt ccc aaa gtc ctc ccc tgt cac tca tca ctg cag ccg aat ctt 389
 Cys Pro Lys Val Leu Pro Cys His Ser Ser Leu Gln Pro Asn Leu
 25 30 35

<210> 2
 <211> 37
 <212> PRT
 <213> Paramecium sp.

<400> 2
 Met Val Ser Met Phe Ser Leu Ser Phe Lys Trp Pro Gly Phe Cys Leu
 1 5 10 15 20 25 30

Phe Val Cys Leu Phe Cln Cys Pro Lys Val Leu Pro Cys His Ser Ser
 20 25 30

Leu Cln Pro Asn Leu
 35

<210> 3
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Designed peptide based on size and polarity to act as a linker between the alpha and beta chains of Protein XYZ.

<400> 3
 Met Val Asn Leu Glu Pro Met His Thr Glu Ile
 1 5 10

<210> 4
 <400> 4
 000

{Annex VIII follows}

identifiers and their accompanying information as shown in the following table. The numeric identifier shall be used only in the "Sequence Listing." The order and presentation of the items of information in the "Sequence Listing" shall conform to the arrangement given below. Each item of information shall begin on a new line and shall begin with the numeric identifier enclosed in angle brackets as shown. The submission of those items of information designated with an "M" is mandatory. The submission of those items of information designated with an "O" is optional. Numeric identifiers <110> through <170> shall only be set forth at the beginning of the "Sequence Listing." The following table illustrates the numeric identifiers.

| Numeric Identifier | Definition | Comments and Format | Mandatory (M) or Optional (O) |
|--------------------|-------------------------------|---|---|
| <110> | Applicant | Preferably max. of 10 names; one name per line; preferable format: Surname, Other/ Names and/or Initials | M |
| <120> | Title of Invention | | M |
| <130> | File Reference | Personal file reference | M, when filed prior to assignment of appl. number |
| <140> | Current Application Number | Specify as: US 07/999,999 or PCT/US96/99999 | M, if available |
| <141> | Current Filing Date | Specify as: yyyy-mm-dd | M, if available |
| <150> | Prior Application Number | Specify as: US 07/999,999 or PCT/US96/99999 | M, if applicable include priority documents under 35 USC 119 and 120 |
| <151> | Prior Application Filing Date | Specify as: yyyy-mm-dd | M, if applicable |
| <160> | Number of SEQ ID NOS | Count includes total number of SEQ ID NOS | M |
| <170> | Software | Name of software used to create the Sequence Listing | O |
| <210> | SEQ ID NO:## | Response shall be an integer representing the SEQ ID NO shown | M |
| <211> | Length | Respond with an integer M expressing the number of bases or amino acid residues | M |

| | | | |
|-------|----------|--|--|
| <212> | Type | Whether presented sequence molecule is DNA, RNA, or PRT (protein). If a nucleotide sequence contains both DNA and RNA fragments, the type shall be "DNA." In addition, the combined DNA/RNA molecule shall be further described in the <220> to <223> feature section. | M |
| <213> | Organism | Scientific name, i.e. Genus/species, Unknown or Artificial Sequence. In addition, the "Unknown" or "Artificial Sequence" organisms shall be further described in the <220> to <223> feature section. | M |
| <220> | Feature | Leave blank after <220>. <221-223> provide for a description of points of biological significance in the sequence. | M, under the following conditions: if "n," "Xaa," or a modified or unusual L-amino acid or modified base was used in a sequence; if ORGANISM is "Artificial Sequence" or "Unknown"; if molecule is combined DNA/RNA. |
| <221> | Name/Key | Provide appropriate identifier for feature, preferably from WIPO Standard ST.25 (1998), Appendix 2, Tables 5 and 6 | M, under the following conditions: if "n," "Xaa," or a modified or unusual L-amino acid or modified base was used in a sequence |
| <222> | Location | Specify location within sequence; where appropriate state number of first and last bases/amino acids | M, under the following conditions: if "n," "Xaa," or a modified or unusual L-amino acid or modified |

| | | in feature | base was used in a sequence |
|-------|---------------------------|--|--|
| <223> | Other Information | Other relevant information; four lines maximum | M, under the following conditions: if "n," "Xaa," or a modified or unusual L-amino acid or modified base was used in a sequence; if ORGANISM is "Artificial Sequence" or "Unknown"; if molecule is combined DNA/RNA. |
| <300> | Publication Information | Leave blank after <300> | O |
| <301> | Authors | Preferably max of ten named authors of publication; specify one name per line; preferable format: Surname, Other Names and/or Initials | O |
| <302> | Title | | O |
| <303> | Journal | | O |
| <304> | Volume | | O |
| <305> | Issue | | O |
| <306> | Pages | | O |
| <307> | Date | Journal date on which data published; specify as yyyy-mm-dd, MMM-yyyy or Season-yyyy | O |
| <308> | Database Accession Number | Accession number assigned by database including database name | O |
| <309> | Database Entry Date | Date of entry in database; specify as yyyy-mm-dd or MMM-yyyy | O |
| <310> | Patent Document Number | Document number; for patent-type citations only. Specify as, for example, US 07/999,999 | O |

| | | | |
|-------|--------------------|--|----|
| <311> | Patent Filing Date | Document filing date, for patent-type citations only; specify as yyyy-mm-dd | O |
| <312> | Publication Date | Document publication date, for patent-type citations only; specify as yyyy-mm-dd | O |
| <313> | Relevant Residues | FROM (position) TO (position) | O |
| <400> | Sequence | SEQ ID NO should follow the numeric identifier and should appear on the line preceding the actual sequence | CM |

5. Section 1.024 is revised to read as follows:

1.024 Form and format for nucleotide and/or amino acid sequence submissions in computer readable form.

(a) The computer readable form required by 1.021(c) shall meet the following specifications:

(1) The computer readable form shall contain a single "Sequence Listing" as either a diskette, series of diskettes, or other permissible media outlined in paragraph (c) of this section.

(2) The "Sequence Listing" in paragraph (a) (1) of this section shall be submitted in American Standard Code for Information Interchange (ASCII) text. No other formats shall be allowed.

(3) The computer readable form may be created by any means, such as word processors, nucleotide/amino acid sequence editors or other custom computer programs; however, it shall conform to all specifications detailed in this section.

(4) File compression is acceptable when using diskette media, so long as the compressed file is in a self-extracting format that will decompress on one of the systems described in paragraph (b) of this section.

(5) Page numbering shall not appear within the computer readable form version of the "Sequence Listing" file.

(6) All computer readable forms shall have a label permanently affixed thereto on which has been hand-printed or typed: the name of the applicant, the title of the invention, the date on which the data were recorded on the computer readable form, the operating system used, a reference number, and an application serial number and filing date, if known.

(b) Computer readable form submissions must meet these format requirements:

(1) Computer: IBM PC/XT/AT, or compatibles, or Apple Macintosh;

(2) Operating System: MS-DOS, Unix or Macintosh;